

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query  | DBs                        | Default Operator | Plurals | Time Stamp          |
|-------|-------|---|----------------------------|------------------|---------|---------------------|
| S1    | 1     | ("20060038311").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2008/06/17<br>13:47 |
| S2    | 1     | ((NARIHIKO) near2<br>(TOGOU)).INV.  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:47 |
| S3    | 2     | ((NARIHIKO) near2<br>(TOGOU)).INV.  | EPO; JPO;<br>DERWENT       | OR               | ON      | 2008/06/17<br>13:47 |
| S4    | 1     | ((MASAYA) near2<br>(SATOJ)).INV.  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:47 |
| S5    | 17    | ((MASAYA) near2<br>(SATOJ)).INV.  | EPO; JPO;<br>DERWENT       | OR               | ON      | 2008/06/17<br>13:47 |
| S6    | 662   | seksui.as.  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:49 |
| S7    | 91238 | seksui.as.  | FPRS; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/06/17<br>13:49 |
| S8    | 576   | S6 and resin  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:49 |
| S9    | 275   | S8 and styrene  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:50 |
| S10   | 70    | S9 and blowing  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:50 |
| S11   | 18    | S10 and bead\$3   | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>13:50 |
| S12   | 1     | ("3963816").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2008/06/17<br>14:32 |
| S13   | 21    | ("3086248"   "3126432"  <br>"3155379"   "3162704"  <br>"3207820"   "3417170"  <br>"3446882"   "3452124").<br>PN. OR ("3963816").<br>URPN. | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>14:43 |
| S14   | 1     | ("4560705").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2008/06/17<br>14:50 |
| S15   | 4     | ("4560705").URPN.   | USPAT                      | OR               | ON      | 2008/06/17<br>14:54 |
| S16   | 747   | (521/60).OQLS.  | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2008/06/17<br>14:56 |
| S17   | 210   | S16 and (surfactant<br>soap)  | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>14:56 |
| S18   | 15    | S17 and (surfactant with<br>(impregnate impregnate<br>\$3))   | US-PGPUB;<br>USPAT; USOCR  | OR               | ON      | 2008/06/17<br>14:57 |

|     |       |   |                           |    |     |                     |
|-----|-------|---|---------------------------|----|-----|---------------------|
| S19 | 1     | ("5217660").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>15:08 |
| S20 | 2     | ("2983692").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>15:09 |
| S21 | 12    | ("2983692").URPN.   | USPAT                     | OR | ON  | 2008/06/17<br>15:12 |
| S22 | 1     | ("3900433").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>15:16 |
| S23 | 1     | ("4871594").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>15:30 |
| S24 | 8     | ("3900433").URPN.   | USPAT                     | OR | ON  | 2008/06/17<br>15:38 |
| S25 | 145   | (styrene) with (pre\$1foam<br>\$3 pre\$1expand\$3<br>prefoam\$3)          | USPAT                     | OR | ON  | 2008/06/17<br>15:44 |
| S26 | 1     | EP-343473-\$.did.   | EPO; DERWENT              | OR | ON  | 2008/06/17<br>16:47 |
| S27 | 1     | ("6476089").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>17:06 |
| S28 | 169   | (styrene) with (olefin<br>ethylene propylene) with<br>(expandable expand) | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:13 |
| S29 | 2     | S28 with surfactant   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:13 |
| S30 | 43    | S28 and steam   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:19 |
| S31 | 1     | ("5244996").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>17:21 |
| S32 | 1     | ("5460818").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>17:32 |
| S33 | 362   | styrene with (cationic<br>near surfactant)                                | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:40 |
| S34 | 37    | S33 and foam  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:41 |
| S35 | 40908 | cationic near3 surfactant   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:44 |
| S36 | 11818 | S35 and foam  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:44 |
| S37 | 6206  | S36 and (styrene olefin)  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:44 |
| S38 | 1170  | S37 and bead  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:44 |
| S39 | 204   | S38 and steam   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/17<br>17:44 |
| S40 | 1     | ("4302549").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>17:45 |

|     |       |  |                           |    |     |                     |
|-----|-------|--|---------------------------|----|-----|---------------------|
| S41 | 1     | ("3759641").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>17:49 |
| S42 | 2     | ("3023175").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/17<br>18:05 |
| S43 | 2     | ("4286069").URPN.  | USPAT                     | OR | ON  | 2008/06/17<br>18:44 |
| S44 | 1785  | (264/41).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/18<br>08:51 |
| S45 | 714   | (264/42).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/18<br>08:51 |
| S46 | 680   | (264/48).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/18<br>08:51 |
| S47 | 882   | (521/56).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/18<br>08:51 |
| S48 | 11    | ("3991020"   "4174427"  <br>"4286069"   "4333970"  <br>"4361656"   "4375497"  <br>"4386133"   "4398958"  <br>"4463032"   "5935645"  <br>"6136396").PN. OR<br>("6646018").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/07/09<br>12:43 |
| S49 | 0     | (cationic near3<br>surfactant) with (styrene)<br>with (bead) with<br>(expandable)  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/07/09<br>12:54 |
| S50 | 4     | (cationic near3<br>surfactant) and ((styrene)<br>with (bead) with<br>(expandable))   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/07/09<br>12:55 |
| S51 | 1     | ("5460818").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/09<br>14:09 |
| S52 | 15169 | (cationic near3<br>surfactant) and (styrene)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/05<br>14:29 |
| S53 | 1911  | S52 and expand\$4  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/05<br>14:29 |
| S54 | 231   | S53 and HLB  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/05<br>14:29 |
| S55 | 92    | S54 and bead   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/05<br>14:30 |
| S56 | 29    | (cationic near3<br>surfactant) and ((styrene)<br>with expand\$4) and<br>(styrene surfactant).ab.   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/05<br>14:33 |
| S57 | 5     | ((("3155591") or<br>("3929678") or<br>("3959461") or<br>("4387090")).PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/05<br>14:36 |
| S58 | 2     | ((("4174427") or<br>("4560705")).PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/05<br>14:39 |

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|-----|------|---|------------------------|----|-----|------------------|
| S59 | 12   | ("2911381"   "3051682"   "3827990"   "4226942"   "4312957"). PN. OR ("4560705"). URP.N.               | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:40 |
| S60 | 9    | ("3001954"   "3468820"). PN. OR ("4174427"). URP.N.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:42 |
| S61 | 0    | (S59 S60) and (cationic with surfactant)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:42 |
| S62 | 9    | (S59 S60) and ( surfactant)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:42 |
| S63 | 1167 | (521/56,57). CQLS   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/05 14:46 |
| S64 | 57   | S63 and (styrene and cationic)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:50 |
| S65 | 22   | S63 and (styrene and (cationic with surfactant))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 14:52 |
| S66 | 30   | S63 and (styrene and (ammonium with surfactant))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 15:26 |
| S67 | 6255 | (surfactant).ab. and (sulfonate with anionic) and (ammonium)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S68 | 1339 | (surfactant).ab. and (sulfonated with anionic) and (ammonium)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S69 | 1165 | (surfactant).ab. and (sulfonated with anionic) and (ammonium with salt)                               | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S70 | 359  | (surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene)                 | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S71 | 0    | (surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene with expandable) | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S72 | 15   | (surfactant) ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene with coat\$3)    | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:20 |
| S73 | 1    | (surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and S63                       | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/02/05 16:21 |

|     |     |  |                           |    |     |                     |
|-----|-----|--|---------------------------|----|-----|---------------------|
| S74 | 107 | (styrene polystyrene) and (surfactant with bead) and (expand\$3 with bead)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:29 |
| S75 | 85  | ((styrene polystyrene) with bead) and (surfactant with bead) and (expand\$3 with bead)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:29 |
| S76 | 57  | ((styrene polystyrene) with bead) and (surfactant with bead) and (expand\$3 with bead) and blowing   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:31 |
| S77 | 31  | ("3026272"   "3026273"   "3067147"   "3121132"   "3371053"   "3888957"   "4086191"   "4174427"   "4404293"   "4525484"   "4560705"   "4619845"   "4794167"   "4813859"   "4840759"   "4933105"   "5000891"   "5228620"   "5240657"   "5269980"   "5525637"   "5573790"   "5582779"   "5591778"   "5977195"   "H001094").<br>PN.      | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:40 |
| S78 | 760 | (521/60).COLLS.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/14<br>21:53 |
| S79 | 589 | S78 and (styrene polystyrene)  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:53 |
| S80 | 155 | S79 and surfactant   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:53 |
| S81 | 115 | S80 and blowing  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:53 |
| S82 | 115 | (US-20080075864-\$ or US-20080067709-\$ or US-20070254972-\$ or US-20040229966-\$ or US-20010044477-\$ or US-20010014701-\$).did. or (US-7241816-\$ or US-6908949-\$ or US-6822023-\$ or US-6797733-\$ or US-6686400-\$ or US-6638984-\$ or US-6617364-\$ or US-6610798-\$ or US-6608150-\$ or US-6593383-\$ or US-6502621-\$ or US- | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:54 |

6497269-\$ or US-  
6476089-\$ or US-  
6448300-\$ or US-  
6360807-\$ or US-  
6355697-\$ or US-  
6355696-\$ or US-  
6273347-\$ or US-  
6221926-\$ or US-  
6174471-\$ or US-  
6093750-\$ or US-  
6051617-\$ or US-  
5837740-\$ or US-  
5830922-\$ or US-  
5763498-\$ or US-  
5753157-\$).did. or (US-  
5693683-\$ or US-  
5679450-\$ or US-  
5616413-\$ or US-  
5605937-\$ or US-  
5589519-\$ or US-  
5585410-\$ or US-  
5580503-\$ or US-  
5240967-\$ or US-  
5216036-\$ or US-  
5190984-\$ or US-  
5128380-\$ or US-  
5095041-\$ or US-  
5091256-\$ or US-  
5064869-\$ or US-  
5053437-\$ or US-  
5051451-\$ or US-  
5041465-\$ or US-  
5030663-\$ or US-  
5026736-\$ or US-  
4983640-\$ or US-  
4980382-\$ or US-  
4929645-\$ or US-  
4927859-\$ or US-  
4790367-\$ or US-  
4765934-\$ or US-  
4761432-\$ or US-  
4746706-\$).did. or (US-  
4703066-\$ or US-  
4692472-\$ or US-  
4681779-\$ or US-  
4675363-\$ or US-  
4673694-\$ or US-  
4670513-\$ or US-  
4665103-\$ or US-  
4665102-\$ or US-  
4663357-\$ or US-  
4661564-\$ or US-  
4661386-\$ or US-  
4659745-\$ or US-  
4659600-\$ or US-  
4652609-\$ or US-  
4647593-\$ or US-

|     |     |  |                           |    |     |                     |
|-----|-----|--|---------------------------|----|-----|---------------------|
|     |     | 4626554-\$ or US-<br>4622346-\$ or US-<br>4609681-\$ or US-<br>4608394-\$ or US-<br>4603149-\$ or US-<br>4599366-\$ or US-<br>4588751-\$ or US-<br>4547527-\$ or US-<br>4442232-\$ or US-<br>4439547-\$ or US-<br>4430449-\$ or US-<br>4424285-\$).did. or (US-<br>4423160-\$ or US-<br>4409338-\$ or US-<br>4407979-\$ or US-<br>4386133-\$ or US-<br>4361656-\$ or US-<br>4312957-\$ or US-<br>4302549-\$ or US-<br>4286069-\$ or US-<br>4278627-\$ or US-<br>4275023-\$ or US-<br>4269871-\$ or US-<br>4247650-\$ or US-<br>4241191-\$ or US-<br>4117178-\$ or US-<br>4113672-\$ or US-<br>4017427-\$ or US-<br>3929690-\$ or US-<br>3917545-\$ or US-<br>3903024-\$ or US-<br>3819547-\$ or US-<br>3819544-\$).did. or (US-<br>3832312-\$ or US-<br>3827990-\$ or US-<br>3770663-\$ or US-<br>3697454-\$ or US-<br>3526605-\$ or US-<br>3501426-\$ or US-<br>3342760-\$ or US-<br>3039977-\$).did. |                           |    |     |                     |
| S83 | 115 | S82 and surfactant   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:54 |
| S84 | 12  | S82 and (impregnat\$3<br>with surfactant)  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>21:55 |
| S85 | 22  | (expand\$4 with (styrene<br>polystyrene) with bead)<br>and (impregnat\$3 with<br>surfactant)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/14<br>22:02 |
| S86 | 9   | ("4808448").URFN.  | USPAT                     | OR | ON  | 2009/10/14<br>22:06 |
| S87 | 1   | ("4603149").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/14<br>22:07 |

|      |      |  |                        |    |     |                  |
|------|------|--|------------------------|----|-----|------------------|
| S88  | 206  | ((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static))                     | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/14 22:13 |
| S89  | 0    | ((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static) with impregnat\$4)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/14 22:14 |
| S90  | 206  | ((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static))                     | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/14 22:14 |
| S91  | 5    | ((polystyrene styrene) with bead with impregnat \$4) and (ammonium with (antistatic anti-static))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/14 22:14 |
| S92  | 36   | ((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static)) and impregnat\$4    | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/14 22:29 |
| S93  | 15   | ("4238570"   "4281036"   "4495224"   "4588751"   "4599366"   "4626554"). PN. OR ("4781983"). URFN. | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 16:22 |
| S94  | 18   | ("2891878"). URFN.   | USPAT                  | OR | ON  | 2009/10/20 16:53 |
| S95  | 40   | ("2891878"   "3324091"   "3535294"). PN. OR ("3933779"). URFN.                                     | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 16:54 |
| S96  | 9893 | (antistatic (anti-static)) and (styrene polystyrene) and bead                                      | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 16:58 |
| S97  | 75   | (antistatic (anti-static)). ab. and ((styrene polystyrene) with bead)                              | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 16:58 |
| S98  | 6    | ((antistatic (anti-static)) with quaternary).ab. and ((styrene polystyrene) with bead)             | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 16:58 |
| S99  | 2    | (("4603149") or ("4628068")). PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/20 17:02 |
| S100 | 2    | (antistatic (anti-static)). ab. and ((styrene polystyrene) with bead) and (ethylsulfate)           | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 17:11 |
| S101 | 8    | ((antistatic (anti-static)) with ethylsulfate) and (styrene polystyrene)                           | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/10/20 17:14 |



|      |    |   |                           |    |     |                     |
|------|----|---|---------------------------|----|-----|---------------------|
| S102 | 6  | ("4127552"   "4605684"   "4687801"   "4861805"   "4895886"   "5254416").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/20<br>17:27 |
| S103 | 1  | ("20010034390").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/21<br>14:11 |
| S104 | 1  | ("4937032").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/21<br>15:30 |
| S105 | 2  | ("3206429").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/21<br>17:04 |
| S106 | 37 | (antistatic (anti-static)).<br>ab. and ((styrene<br>polystyrene) with bead<br>and aqueous   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>17:08 |
| S107 | 1  | ("4018946").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/21<br>17:10 |
| S108 | 3  | ("4018946").URPN.   | USPAT                     | OR | ON  | 2009/10/21<br>17:12 |
| S109 | 15 | ("3023175"   "4238570"  <br>"4424286"   "4556680"  <br>"4599366"   "5286756"  <br>"5308878").PN. OR<br>("5935645").URPN.                  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>17:16 |
| S110 | 3  | S109 and quaternary   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>17:17 |
| S111 | 55 | (impregnat\$3 with<br>(antistat antistatic (anti-<br>static))) and (styrene<br>polystyrene) and bead                                      | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>18:01 |
| S112 | 29 | (impregnat\$3 with<br>(antistat antistatic (anti-<br>static))) and (styrene<br>polystyrene) and bead<br>and quaternary                    | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>18:01 |
| S113 | 1  | ("3963816").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/10/21<br>18:18 |
| S114 | 21 | ("3086248"   "3126432"  <br>"3155379"   "3162704"  <br>"3207820"   "3417170"  <br>"3446882"   "3452124").<br>PN. OR ("3963816").<br>URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/10/21<br>18:19 |
| S115 | 1  | ((NARIHIKO) near2<br>(TOGOU)).INV.  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2010/07/07<br>16:53 |
| S116 | 2  | ((MASAYA) near2<br>(SATOU)).INV.  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2010/07/07<br>16:53 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query  | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|---|-------------|------------------|---------|------------------|
| L1    | 0    | (styrene with olefin with expand\$4 with particle).clm.     | USPAT; UPAD | OR               | ON      | 2010/10/26 17:59 |
| L2    | 0    | (styrene with olefin with expand\$4 with surfactant).clm.   | USPAT; UPAD | OR               | ON      | 2010/10/26 17:59 |
| L3    | 9    | ((styrene olefin) with expand\$4 with surfactant).clm.      | USPAT; UPAD | OR               | ON      | 2010/10/26 17:59 |
| L4    | 0    | (impregnate with resin with blowing with surfactant).clm.   | USPAT; UPAD | OR               | ON      | 2010/10/26 18:08 |
| L5    | 1    | (impregnat\$3 with resin with blowing with surfactant).clm. | USPAT; UPAD | OR               | ON      | 2010/10/26 18:08 |

10/ 26/ 2010 6:15:58 PM

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